sapience
Consultants and Engineers
Geo-Tech & Road Materials Testing Laboratory

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
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Name of Work :Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

Name of Client	:	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Contractor/Agency	:	Sri. R Lokesh, Contractor, Bangalore.
Total Cost	:	Rs. 739.96 Lakhs
Date of Inspection	:	24.06.2021 ✓
Status of Bill	:	3rd and Part Bill
In the Presence of	:	(a) Assistant Engineer , BBMP, Bangalore.
	:	(b) Mr. Abhilash, Engineer M/S Sapience Consultants and Engineers, Bangalore

Sl.No	Description of the Item	Unit	Qty		Comments / observations
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3)Complete as per the direction of Engineer in charge with all lead and lift	Sqm	5102.3	:	Work done up to the billed quantity and Quality is satisfactory
2	Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift	Cum	6273.7	:	Work done up to the billed quantity and Quality is satisfactory
3	Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per	Sqm	173.54	:	Work done up to the billed quantity and Quality is satisfactory
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69	Cum	316.83	:	Work done up to the billed quantity and Quality is satisfactory

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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5	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire	ton	24.099	:	Work done up to the billed quantity and Quality is satisfactory
6	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete	Sqm	2094.1	:	Work done up to the billed quantity and Quality is satisfactory
7	Providing ruled pointing to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as	Sqm	11296	:	Work done up to the billed quantity and Quality is satisfactory
8	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459	Cum	599.31	:	Work done up to the billed quantity and Quality is satisfactory
9	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 10 cms thick Complete as per the direction of Engineer in	Sqm	3070.3	:	Work done up to the billed quantity and Quality is satisfactory
10	Providing one line dressing to granite stone slab / granite stone masonry as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	3084.5	:	Work done up to the billed quantity and Quality is satisfactory
11	Providing chamfering edges to stone slab 2.5 cms. Wide as per specifications. (only chamfered length shall be recorded) Complete as per the direction of Engineer in charge with all lead and lift	Sqm	11973	:	Work done up to the billed quantity and Quality is satisfactory
12	Providing and Fixing RCC Precast Cover Slab of 250 mm Thick for Drains in Cement Concrete M-20 using graded granite Jelly of 20 mm and down size with steel Reinforcement, including form work	Sqm	96.82	:	Work done up to the billed quantity and Quality is satisfactory
13	Removing and resetting of kerb stones.Complete as per the direction of Engineer in charge with all lead and lift	Sqm	7680.6	:	Work done up to the billed quantity and Quality is satisfactory

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Sl.No	Description of the Item	Unit	Qty		Comments / observations
14	Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., Complete as per the direction	no's	14508	:	Work done up to the billed quantity and Quality is satisfactory
15	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements	Cum	608.15	:	Work done up to the billed quantity and Quality is satisfactory
16	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix	Cum	1361.8	:	Work done up to the billed quantity and Quality is satisfactory
17	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in	Cum	2088.1	:	Work done up to the billed quantity and Quality is satisfactory
18	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg /	Sqm	9078.7	:	Work done up to the billed quantity and Quality is satisfactory
19	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all	Sqm	24509	:	Work done up to the billed quantity and Quality is satisfactory
20	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding	Sqm	58122	:	Work done up to the billed quantity and Quality is satisfactory
21	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site,	Cum	1680	:	Work done up to the billed quantity and Quality is satisfactory
22	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to	Cum	1344	:	Work done up to the billed quantity and Quality is satisfactory

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